FEVER HOSPITAL CORK STREET.

House of Recovery Cork Street Fever Hospital

Annual Report and Medical Report

From 1st April 1879 to 31st March 1880

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THE ANNUAL REPORT

OF

THE FEVER HOSPITAL

AND

HOUSE OF RECOVERY,

CORK-STREET, DUBLIN,

FOR

THE YEAR ENDED 31st MARCH, 1880.

CONTAINING

LIST OF COMMITTEE AND OFFICERS, REPORT OF THE MANAGING COMMITTEE, STATEMENT OF THE MEDICAL REPORT.

THE MEDICAL REPORT.

AND

LIST OF SUBSCRIPTIONS AND DONATIONS.

DUBLIN:

PRINTED FOR THE COMMITTEE,
BY JOHN FALCONER, 53, UPPER SACKVILLE-STREET.

1880.

THE COMMITTEE AND OFFICERS.

Managing Committee:

BARRINGTON, SIR JOHN, J.P., D.L.

*BEWLEY, WILLIAM H.

to BOYD. SAMUEL, J.P. BOYLE, RICHARD W., J.P.

BUSBY, ALPHONSO.

Figgis, Rosman J. "Hogo, THOMAS P.

*JAMESON, WILLIAM.

*LA TODOBE, W. DIGGES, J.P., D.L. . Thus marked are Trustees.

LYNCH. NICHOLAS. MACREY, SIR JAMES W., J.P.,

D.L., High Sheriff.

PERRIN, HENRY. PERRIN. RICHARD.

POWER, JAMES TALBOT, D.L.

*SHACKLETON, ARRAHAM, T.C. JP.

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. WEBS, ALFRED. † The Representative on the Board of Superintendence.

Consulting Shoeician :

THOMAS W. GRIMSBAW, M.A., M.D., Dubl., F.K.O.C.P. Bhosicians :

JORN WILLIAM MOORE, M.D., Dubl., F.K.O.C.P. REUBEN J. HARVEY, M.D., Dubl., F.K.O.C.P.

Cemperary Whesicians :

WILLIAM STOKER, M.K.Q.C.P., F.R.C.S.I. JOSEPH M. REDMOND, L.K.Q.C.P., L.R.C.S.I.

Surgeon : JAMES H. WHARTON, M.A., M.B., F.R.C.S.I.

Menistrar and Menibent ABebical Officer:

G. PURCELL ATEINS, L.R.C.P.&S., Edin.

Labp Superintenbent MISS MAGRIPP

Malleriar .

MR. WILLIAM PERRY.

REPORT

OF THE

COMMITTEE OF MANAGEMENT.

THE Managing Committee of Cork-etreet Fever Hospital beg to present to the supporters and friends of the Institution their Seventy-eixth Annual Report, with a Statement of Accounts for the Twelve Months ending March 31st, 1880.

At the conclusion of the preceding year the Committee congratulated themselves that the epidemic of smallpox, which had prevailed so extensively in the City of Dublin and the adjacent Townshipa, bad considerably abated. From the continued decrease in the number of admissions, it seemed probable that smallpox might once more disappear from the Hospital Registry. The Committee regret, however, to report that their smallpox available of the committee regret, the conditions are smallpox available. The committee regret, to report that their smallpox available variations, a continuous weekly influx of patients—the number of such cases in Hospital at one time reaching 70, and never sinking below 13, the daily average having been about 38. There is, therefore, too much reason to fear that this disease has become as permanently existent in the City as many other forms of zymotio disease. The means by which it may be eradicated is a problem that requires the serious consideration of the medical profession and sanitary experts.

It will be seen from the statistical returns in the Medical Report that the total number of patients treated in the Hospital has not been so great as in the year ending March 31st, 1879, in consequence of the marked decrease of smallpox and some other forms of fever. There has, however, been a considerable increase of scarlatina and pneumonia, both of which diseases frequently entail long and costly treatment; and, in the aggregate, the Hospital has performed a very full wear's work.

It has been needful to incur considerable outlay during the past

year in works necessary for the proper maintenance of the premises. The entire Hospital has been painted externally and internally new iron entrance gates have been erected, and some other mino improvements have been effected. Notwithstanding the large suu, amounting to £880 18a. 6d. which has been allotted this year this Hospital by the Council of the Hospital Sunday Fund, the total income of the Institution has not kept pace with its expense. The Committee, therefore, appeal with confidence to the public, who so generously enabled them to meet successfully the great demand on the resources of the Hospital in former periods of epidemic, to continue to ad them by liberal pseumiary support.

The Committee desire to impress upon their fellow-citizens the great value of this Institution, not only in alleviating the sufferings of the sick poor, but also in preventing the spread of infectious diseases amongst all classes. Many persons suffering from smallpox and scarlatina have been treated in Cork-street, who would have been unwilling to enter the wards of the Workhouse Hospital, and, if no such institution as this had been available, would, doubtless, have remained in their own houses, and thus formed centres for the spread of disease.

The Institution has received some valuable legucies during the year—namely, £1,000 from Patrick Whitty, £200 from Mrs. Ree, £20 from William Harvey Pim, £10 from Mrs. Wordell. These suns have, in accordance with the Rules, been invested in approved securities.

Messrs. Edmund J. Figgis and John D. Wardell have been added to the Managing Committee.

The Committee have again to acknowledge the efficient services, and unremitting attention to the interests of the Institution, of the Rogistrar and Lady Superintendent, and have pleasure also in testifying to the general good conduct of the nurses and servants.

JOHN D. WARDELL,

Chairman.

May 6th, 1880.

P.S.—The Managing Committee regret to have to state that since the above Report was adopted, a fresh outbreak of smallpox has occurred, the number of weekly edminions having again reached the maximum rate, and rapidly realist the wards of the Hospital.

May 31st. 1880.

Account of the Receipts and Expenditure of the Cork-street Ferer Hospital for the Year ending 31st of March, 1880.

1

dr.

1879-80.	INCOME	fad	1	e d.	1879-NI	EXPENDITURE	£	ı d	£	s. d
To	Parbiamentary Grant,	2,500 0 0				Balance due to Bankern		-		14 1
	interest on Government Stock,	208 18 4				Bread, Mik, Meat, &c.,	4 600	7 9		
[,]	Dividend on Grand Canal	118 2 6	İ			Tea, Sugar, &c.,	040	18-4-	,	
, 1	nierest on Railway Dobentures,	313 8 8				Wine,	0.0	3 (
ln d	Acomities,	41 15 7				Whishey and Brandy,	70	17. 9		
	Renta,				.,	Ale and Porter,	11	16 0		
_H (Corporation Presentment,	300 n 11			,,	Medicinem and Appliances,	148	3 9		
	Subscriptions and Donations,				,,	Clothing of Patients	14	8 11	' '	
, I	Icepital Sunday Fund,	880 18 6			10	Salaries of Medical Staff & Officer	800	14 3		
1. 1	Ioria Dablia Unien	88 10 0			"	Wages of Nurses and Servanta	5481	14 8		
	outh Dublin Union	17P 16 0			P	Rations of do. do.,	503	2 0	i	
, I	Public Health Committee for				,	Rent, Taxes, and Insurance	117	17 6		
	Compensation for destruction of					Sовр,				
	Clothing of Small-pox Patienta,	324 12 5			11	Gan and Cundlen	136	8 11		
	*		5,629	12 5		Coals		18 0		
						Ferniters and Repairs,		15 +		
						Straw Bedding and Uteneils,				
Due t	o Bank of Ireland,	1,120 11 8				Boildings and Furnishing same,		11 8		
Lee	-Die by Treesurer, £74 11 7				Н	Stationery, Printing, and Ail-				
	Cash on hands, 6 0 0					verticing,	0	10 5		
		70 11 7				Burials and Colous,		12 0		
			1,041	0]		Expenses of Cab and Horse,	190	10 6		
					19	Compensation for destruction of				
						Clothing of Small-pox Potienta,		-	1	
					19	Interest on Oversleasta,	13	8 7		
								_	5,931	17
									0,689	10
			6,609	17 6					4,000	30

By Order of the Managing Committee,

G. PURCELL ATKINS Registror.

Er,

Oation		· Da	٠		2		
-	of	Pa	Udn.			ed during the Year 1879-80.	
Oucupados					No	Occupation	No.
Apprentices, -			-	-	8	Drapere' sanistants,	- 7
Bakers,					3		- 1
Baker's wife,			-	-	il	Dremmakers, Dyer's wife,	- 10
Barber,				-	î١	Dyer s wile, -	- 1
Basket-maker, .				-	îl	Regineer, .	. 1
Bisonit-maker, -		-	-	-	īl	Engine-driver,	. î
Piscuit-packer		-	-	-	1		
Blacksmith, -			-	-	1	Factory-girl,	- 1
Blacksmith's wife,			-	-	1	Fender-maker,	. 1
Book-binder,			-	-	1	Fitters,	- 3
Book folders,		-	-	-	2	Pitters' wires,	- 2
Book keeper, Boot binder,		:	-	-	1	Gardeners, · · ·	
		:		-	1	Gastitler,	: 1
Boot-makers			-	-	13	Governoss.	- 1
Boot makers' wive			-		4	Grocers' assistanta	- 21
Bottle-packer.			-	-	1	Groom, · ·	- i
Box-maker.		-	-	-	1	Groom's wife	. 1
			-	-	1		
Brewer, -			-	-	1	Haross-makers, · ·	- 2
Bricklayer's wife,				-	1	Harnes-maker's wife, .	- 1
Brush-maker,	-		-	-	1	Horse-shoer, Horse-shoer's wife.	- 1
Builder, -	-		-		1		. 1
Botchers, -		-	-	-	2	House-keepers,	- 2
Butcher's wife,	•	-	-		2	Inspector of Fisheries, -	1
Butlers, -	•	•	-	-	•	Ironmongers.	2
Cahinet-makers.		-	-		4	Tronmondate'	-
Cabinet-maker's	rife		-		1	Jewellers	2
			-	-	î	Joiner	1
Carmens' wives		- '	-	-	3		
Carpenters, - Carpenters wives,	-	-	-	-	13	Knitters,	3
Carpenters' wives,	-		-	-	2		
Carpet layer.	-	-	-		1	Labourers,	- 108
Cart-drivers,	•	-	-	-	3	Labourers' wives,	- 4
Chardler, - Charwomen,	-	-	-	-	6	Leather-dresser,	- 1
Children -	-	•	-		420	Lodginghouse-keeper,	- 1
Clarks					12	nooging nome needed	
Clerks, wives,		-	-	-	4	Machinists,	- 4
Clog-makers.		-	-	-	2	Maann	- 1
Coachmen's wive		-	-	-	2	Medical students,	- 7
Coal-dealer's wife			-	-	1	Messegers · · · ·	- 11
Coal-porters,	-		-	-	5	Miller, ·	: 1
Coal-porter's wife	٠,	-	-	-	1	Milliner,	. 1
Campositors,	5		-	-	3	Musicians	- 3
Compositor's wife Confectioner,		-	-	-	i	Handan -	
Copperanith,	-	:			2	Naturalist,	1
Company					3		5
Coopers, -	-				2		
Currier		-		-	1	Outfitter's wife, -	1
The second second					-	-	- 1
Dairymen, .			-	-	2		
Dealers, -	-		:		11	Painters, Painters, wives,	: 1
Dealer's wife,		-			- 2	I TOTAL MILLER	

Occapation	No.	Occupation
l'archment-maker.	1	Silk-winder,
Pawpbroker's clerk.	1	Slater's wife,
Pensioner,	I	Smithe.
Pipe-maker's wife,	1	Soap-stamper.
Flasterer,	1	Soldiers' wiver,
l'lasterer's wife.	3	Stationer
Plumbers,	Ü	Stewards
Plumber's wife.	1	Stone-cutters, -
Policeman's wife,	1	Stone-cutter's wife.
Porters,	19	
l'orters' wives,	10	Tailoress,
Fortmanteau-maker.	1	Tailors,
Postmen,	2	Tailors' wives -
Poulterer.	1	Tobocco-spinner, -
Printers,	5	Tram-conductor
		Tram-conductor's wife,
Sack-maker.	1	Turner,
Sail maker	1	
Sallors	5	Upholsterer,
Sailar's wife,	1	
Salesmen,	3	Van-drivers,
Sawyer.	1	Van-driver's wife,
School-teachers,	4	
Seamstrusses,	2	Waistcoat makers
Servante.	136	Waiter,
Shirt-maker.	1	Walkingstick.maker.
Shop-nasiatanta.	7	Wanter.
Shop-keepen,	4	Widows

MEDICAL REPORT

OF

The Feber Fospital and House of Becobery,

CORK-STREET, DUBLIN,

FOR THE YEAR ENDING 31st MARCH, 1880.

RY

REUBEN J. HARVEY, M.D., F.K.Q.C.P.;

PHTRICIAN TO THE HOSPITAL;
ARRISTANT PHYSICIAN TO THE EICHNOND, WHITWORTH, AND HARDWICKE HOSPITALS;

LECTURES ON PHYSIOLOGY IN THE CASMICHAEL COLLEGE, STC., STC. MEDICAL REPORT.

1879-80.

either of individual cases or of epidemics.

facility.

hetween them.

THE duty of writing the Annual Medical Report of Cork-street

lent a plan to follow as that adopted in our reports for the past three years. This plan, it will be remembered, was devised by our (now) Consulting Physician, Dr. Grimshaw, Registrar-General for Ireland, and consists essentially in a running commentary on a series of analytical tables, which not only deal with the statistics afforded by the year in all their general bearings, but render the comparison of one year with another a matter of the utmost

These tables, with the exception of Tables VI.-IX., have, as usual, been compiled by our Registrar, Dr. G. Purcell Atkins, with his wonted care and skill. They are, for the most part, drawn up upon the monthly plan, and are a comparatively simple outcome of the excellent system he adopts in the keeping of the hospital register, whereby it is at all times available for tracing the history

I am indebted to my colleague, Dr. J. W. Moore, for the valuable meteorological statistics with which he has furnished me-an item which for some years back has formed an essential element in our reports. The importance of recording the history of the weather side by side with the appearance and variations of epidemics cannot be over-estimated, and is none the less important because we are as yet unable to trace any very certain relation

The year which terminated on the 31st March, 1880, has again been one of unusual strain upon the resources of the hospital. For although the total number of admissions was but little over half of

Fever Hospital having devolved upon me for the first time, I feel it but right to record my sense of the privilege of having so excel-

that in the preceding year, it was still greatly above the average, and was largely composed of cases of smallpox-a disease which in its treatment, entails much more than ordinary labour and expenditure.

TABLE 1 .- Showing the Yearly Statement of Patients.

From 1st May, 1804, to 31st March, 1880,

1877_78

inclusive				***	 ***	***	204,08
Discharged o	ured,	or relie	ved		 188,9	968	
Died					 15,0	032	
					-	_	204,00
Remaining is	n hospi	tal 31:	st March,	1880	 	•••	8
In hospital 3	lst Ma	rch, 18	879			75	
Admitted 18	79-80		•••		 1,0	83	
					_	_	1,15
Discharged o	ured, c	r relic	ved			92	
Died					1	86	
					_	_	1,07
Remaining is	hoeni	tal 21e	· March	1880			. 8

The total number of admissions, as shown by Table I., was 1,083. The corresponding numbers for the past three years were: 1876-77 666

1878-7	19		-	-	-	2,151			
fluctuation	in	theee	latter	numbers	is	mainly	due	to	
in of smalln		which	develo	nod in the		utumn /	F 18	76	

The the Tf we omit the smallpox cases, we get, for the four years-

1876-77	-	-	-	637
1377-78	-	-	-	683
1878-79	-	-	-	642
1879-80	-	-	-	483

which shows that the total number of cases other than smallpox was steadily maintained at about 650 for each of the three preceding years, but has this year fallen to 483-a diminution of about 25 per cent. *

^{*} These numbers can only be taken as a very rough estimate of the number of onof general febrile diamen, for they include case of "No Diame" which, in the year 1878-79, amounted to 44, being principally mothers of infants suffering from scarlatina

TABLE II .- Showing the Monthly Statement of Patients from 1st April, 1879, to \$1st March, 1880.

Years	Months		Admitted	No. of Petient in Respital
1879	April	- 1	107	80.00
1010	May	- 1	117	81-29
	June	-	81	70.56
	July	- 1	52	54-89
	August	- 1	62	85-80
	September	- 1	105	58.80
	October		88	69.79
	November	•:	70	73.76
	December	-	76	63-90
1880	January	-	117	71.85
	February	-	103	81.82
	March	-	105	90-45
	Total and Av	erage	1,083	69-28

Table II., which may be called the monthly table, contains two elements-the total number of patients admitted in each month. and the daily average of patients under treatment each month. It bears out, on the whole, the generally observed fact, that during the summer months there is a comparative immunity from fever. One striking difference will be noticed if we compare this table with the corresponding one for last year. For while, in the latter, the month of September appears as the minimal month-being. in fact, the only month in which the number of admissions fell below 100-in the present instance we find the number of admissions in September greatly in excess of those occurring in any of the three months either preceding or succeeding. The increase was principally due to smallpox and scarlatina.

The greatest number of admissions occurred in May and January. In the former case the number was only slightly in excess of what it bad been in the preceding months, when the smallpox epidemic was still raging with full force; while in the latter it was evidently a temporary rise, such as is so constantly observed in connexion with extreme cold and damp.

The daily average number of patients under treatment was 69.28. against 114.67 in the previous year.

10

LOCALITIES.

The following is an analysis of the various streets in the city from which the cases came:—

	Twe cases each	-
Brabazon-row.	Beaver-street.	Cullenswood.
Clarendon-street.	Clonekeagh	Engine-alley.
Fleet-street.	Gordon's-place.	Upper Kevin-street.
Moss-street.	Patrick's-close.	Queen's-square.
Robert-street.	Lower Stephen-str	reet. Temple-bar.
Whitefriar-street.		

ir cases each

	Six cases each.	
Aungier-street.	Bishop's-court.	Cuffe-street.
Clarence-street.	Denzille-street.	High-street.
Longford-street.	New-street.	Nicholas-street.
Sandwith-atreat	Trinity place	

. .

Bridgefoot-street	Chancery-lane.	Hanover-lane.
Lower Kevin-street.	Patrick-street.	Great Ship-street.

Eight cases each.

Lr. Claobrassil-street.	Thomas-street.	Wood-street.

Nine cases. South Great George'e-street.

	Ten cases euch.	
Baggot-court.	James's-street.	Sandwith-lane.

Bishop-street.		Newmarket.	Townsend-street.
Ticelve cases.	Thirt	een coses	Fourteen costs

Twelve cases.	Thirteen cases.	Fourteen cases.
Meath-street.	Lower Mercer-street.	Plunkett-strect.
Fifteen cases.	Seventeen co	ases each.

h King.street.	Francis-street.	New-row.
Twenty-two cases.	Twen	y-nine cases.

Bride-street. Coombe.

Besides these,

1	162	streets	furnished	1	cas
	72	**		2	cas
	41	22	>>	3	,
	23			4	

Suburbs.

C	LSOS		Conce		Cases	Ci	8365
Ball's-bridge,	3	Inchicore,	2	Monkstown,	1	Rathgar,	3
Ballybrack,	1	Island-bridge,	, 2	Merrion,	1	Saudymount,	, 1
Chapelizod,	2	Irishtown,	2	Milltown,	7	Sandford,	1
		Kingstown,			n, 2	Tallaght,	2
Crumlin,	1	Kilmainham)		RathminesU	p. 6	Terenure,	2
Donnybrook,	4	Old,	z	Ringsend,	12		

Individual Houses which furnished two or more Cases

Individual	riou	ses which	Jurnushea	tico	07	more Cases.	
	Cases			Chaes		c	nse:
35, Ashe-street,	2	10, Fran	cis-street,	4	6,	Mercer-st. Lr.	3
29, Bride-street,	4	71, Geor	ge's-st.Sth	.3	14,	Montague-st.	4
59, "	2	49, Gold	en-lane,	3	34,	Moss-strect,	3
8, Baggot-court.	. 9	14, Gord	on's place,	4	28,	New-row,	3
18, Beaver-street	, 3	7, Hand	over-lane,	4	46,	Newmarket,	5
5, Bishop-court,	5	13, King	-st. South,	, 3	16,	Pimlico,	3
33, Coombe,	3	18,	,,	3	24,	Ship-st. Great,	3
53,	4	12, Long	ford-st.	3	4,	Trinity-place,	3
91, "	3	8, Long	ford-lane,	3	2,	Temple-street,	4
54. Fleet-street.	4						

P	ul	die In	titutions.		
		Cares		c	450.9
Brown-street Orphanage,		11	Marine School, -	-	6
Baggot-street Hospital,	-	1	Mountjoy Prison,	-	1
Cork-street Hospital,	-	8	Night Refuge, -	-	9
Coombe Boys' Home,	-	3	Providence Home,	-	2
Canal-street Boys' Home,	-	4	Rotunda Hospital,	-	3
Elliott Home, -	-	11	Steevens' Hospital,	-	1
Grangegorman Prison,	-	1	North Dublin Union,	-	43
Hibernian School,	-	1	Westmoreland Lock He	os-	
Meath Hospital, -	-	2	pital	_	8

Table III.—Storing the Number of Admissions of the Principal Disease and the Mortality of the Cases treated to a Termination, for the year sudin March 31st, 1880.

	Typhus Fever	Entaric Fever	Relapsing Fever	Simple Ferer	Intermittent	Smallpox	Scarlatins	Measles	Passmoola	Whooping	Diambos	Erreineise	Meetingitis
1879 April, -	2	3	-	12	1-	75	6	1-		-	1-	1	1 1
May, .	5	2	-	4	-	90	4	1	4	-	1-	-	. 3
June, -	2	2	-	4	l-	65	-	2	3	-	1-	-	-1-
July, -	4	2	-	7	-	29	1-	2	2	-	1	1-	1
August, .	4	-	-	11	-	36	1	1-	2	1-	1	1-	-
September,	5	1	-	8	-	71	14	1	-	1-	l-	1-	-
October, -	4	2	-	8	-	54	13	4	2	1-	-	1-	-
November,	5	1	-	3	-	37	12	2	1 4	1-	1-	1-	-
December,	6	3	-	7	-	36	9	2	4	1-	-	1-	-
1880 Јаппату, -	18	7	-	16	-	45	11	3	6	2	1	-	1
February, -	20	6	-	16	-	34	13	3	4	-	-	2	-
March, -	19	8	-	8	-	31	15	10	6	-	-	-	1
Total, 1879-80, -	91	37	-	104	-	609	98	30	43	2	3	3	7
Total, 1878-79, -	142	60	-	173	4	1509	71	35	16	1	2	4	4
Increase this year,	-	-	-	-	-	-	27	-	27	1	1	1	3
Decrease this year,	48	23	-	69	4	909	-	5	-	-	-	-	-
Died,	9	4	-	-	-	119	27	1	8	1	-	-	8
Mortality per cent.	9-5	10-8	_	-	-	19-8	27-5	3-3	18-6	50-0	_	_	857

Bronchitis, 14; rheumatism, catarrh, 5 each; phthiais, 4; constipation, alcobolism, varicella, cynanche, 3 asch; urticaria, debility, dyspapsia, 2 each; congention of liver, exems, marsamos, croop, colic, porpurs, pressature sirts, lumbacy, pearpersi mania, scables, heart disease, puerperal fever, pymmis, hectic fever, 1 each; no disease, 2.

The table itself contains a category of those diseases which it is the special function of a fever hospital to treat, while the note at the foot contains a list of those other cases which, from one cause or other, found their way into our wards. Considering, on the one hand, the ample accommodation in general hospitale in Dublin, and, on the other, the definite risk of infection accuring to anyone admitted into a fever hospital, it is distinctly our duty to refuse admission to all but fever cases. But those who have any practical experience of the question know how utterly impossible it is to sift, with any degree of certainty, true fever cases from those which simulate fever—hence the extreme difficulty in carrying out the principle in its completeness, more particularly when it has always been our rule never to refuse a doubtful case. In the present instance, however, the unassually small number of cases which have to be accounted for in the foot-note is eminently satisfactory, and reflects the turnest credit on the Resident Medical Officer.

COMPARATIVE STATEMENT AS TO THE PREVALENCE OF DISEASE.

In all three classes of the continued fevers—typhus, enteric, and simple—there is a marked diminution in the number of cases, amounting together to 142. There was no case either of relapsing or of intermittent fever. The number of smallpox cases, while forming more than one-half of the total number of admissions, was but two-fifths of last year's number—or, in other words, showed a falling off of 99. Measles also showed a decrease of 5. The most marked increase is to be found under the beads scarlatina and pneumonia, being in each case 27. This brought up the total number of admissions in scarlatina to 38. The disease was, moreover, of a bad type, and the mortality reached 27.5 per case of the property of the contraction of t

RATE OF MORTALITY.

The total number of deaths was 186, or 17:58 per cent. of the admissions. Of these 119 were caused by smallpox. Last year the grose percentage mortality was 20:78. Last year the mortality in smallpox was 33:6 per cent.: this year it is 19:8 per cent. Last year the general mortality, exclusive of smallpox, was 14:0 per cent.; this year it is 12:4 per cent.—hence, both in smallpox and in the total of all other cases, the present year compares favourably with the preceding one.

20

OAUSES OF DEATH.

TABLE IV.—Showing the Deaths in each month, and the Disease which
caused them. during 1879-80.

1879-80		Typhus Fever	Enteric Forer	Scarlatina	Pneumonia	Bronchitla	Smallpox	Meningitis	Mossles	Phthisis	Congestion of	Marsamus	Purpura	Premature Birth	Heart Disease	Whooping Cough	Puorperal Ferer	TOTAL
April,	-	1	_	2	2	-	8	1	1	<u> </u> -	-	I-	-	-	-	-	-	15
May, -	- -	-1	_	3	-	-	16	2	-	-	1	-	-	-	-	-	-	22
June, -	٠.	-1	1	_	2	-	16	-	-	-	-	-	-	-	-	-	-	18
July, -		1	_	_	-	-	2	1	-	-	-	1	-	-	-	-	-	5
August,	- 1	1	_	_	-	1	5	-	-	-	-	-	-	_	-	_	-	7
September,	- -	-	_	2	-	-	19	-	-	-	-	-	1		-	-	-	22
October,	٠.	-1	_	6	-	-	12	-	-	-	-	-	-	1	_	-	l–	19
November,	-	1	-	7	_	-	9	-	_	-	-	-	-	-	_	_	-	17
December,	٠ -	-	_	_	2	-	10	-	-	-	-		-	-1	-	-	-	19
January,	-	1	1	3	_	-	10	1	_	1	-	-	-1	-1	1	-	-	18
February,	-	1	-	1	2	2	5	-	-	-	-	-	-	-1	-	1	1	13
March,	-	3	2	3	-	1	8	1	-	-	-	-	-	-	-	-	-	18
Total,		9	4	27	8	4	119	0	1	1	1	1	1	1	1	1	1	186

The above table shows that exclusive of smallpox, scarlatina was the cause of any seriously large number of deaths. The four deaths from enteric fever, however, mise the percentage mortality in that disease to 10°8, as against 8°3 last year, and 0 in 1877-18. The greatest number of deaths occurred in May and September,

being in the latter case almost exclusively due to smallpox.

One of the most disheartening duties which fails to the lot of hospital officials is the tending of cases which are sent in when past all hope of recovery. Table V. contains a list of 32 admis-

sions which come under this category.

21

TABLE V .- Analysis of Deaths of Cases sent in beyond Recovery, 1879-80.

No.	No. in Registry	Duration in Hospital	Disease	Note
1	10	2 days	Pneumonia	Sent in very bad
2	78	1 day	Pneumonia	Sent in very bad
3	108	1 day	Scarlatina	1
4	122	2 days	Moningitie	1
5	169	2 days	Variola	
6	225	2 days	Pneumonia	1
7	228	15 hours	Variola	16
8	230	2 days	Variola	
9	241	2 days	Pneumonia	
10	243	1 day	Variola	Sent in dying
11	264	2 days	Variola	
12	274	I day	Pneumonia	1
13	301	2 days	Variola	1
14	862	1 hour	Premature Birth	Born in Hospital
15	564	6 hours	Variola	Sent in dying
16	582	2 hours	- Scarlatina	Sent in dying
17	584	2 days	Variola	1
18	620	2 days	Scarlatina	1
19	623	2 days	Variola	
20	650	2 days	Variola	
21	680	6 hours	Soarlatina	Sent in dying
22	699	2 days	Variola	
23	746	2 days	Variola	
24	812	I day	Variola	Sent in very bad
25	902	2 days	Bronchitis	
26	910	2 days	Searlatina	
27	917	2 days	Variola	
28	944	1 day	Pneamonia	Sent in dying
29	997	5 hours	Variola	Sent in dying
30	1020	2 days	Variola	
31	1066	1 day	Variola	Sent in dying
82	1083	1 day	Variola	Sent in dying

In such a list as this we must, of course, discriminate between those cases in which the hopelessness is due to the malignancy of the attack, and those in which it is due to the patient having been treated "outside" as long as there was any vestige of hope of a favourable issue, and when all hope had vanished, having been sent into hospital as the most convenient place to die While, from a sanitary point of view, we do not for a moment question the application of the proverb, "better late than never," in these cases, we cannot but regret, on the one hand, that members of our profession should ever lend themselves to aid and abet in any such transaction; and, on the other, that in cases where the medical attendant does all he can to have the patient transferred to hospital at an early stage of the disease, he should not have more efficient assistance from the Legislature to effect what he deems not only necessary for the patient's life, but essential to the public safety. Such cases as these materially increase our deathrate; but as it is distinctly a function of the hospital to receive them, we have no right to murmur at this. We can only regret it for the injustice it does alike to the patients themselves, the public, and our nurses.

THE WEATHER.

The Meteorological Tables (VI., VII., VIII., and IX.) have been drawn up with a twofold object-first, to enable the reader to institute a comparison between the conditions of weather during the past hospital year and the prevalence of disease in the same period; secondly, to afford a standard of reference to the principal meteorological factors in a long series of years. From Table VI. it appears that the spring of 1879 (the first quarter of the hospital year ending March 31, 1880,) was cold and backward; the summer was extremely cold, dull, and rainy: the autumn was dry; and the winter rather severe, but unusually dry. The depression of temperature which commenced on October 21, 1878, continued without interruption to the end of September. The deficit of temperature amounted in November, 1878, to 6.4°, in December to 8.7°, in January, 1879, to 6.6°, in February 3.0°, in March to 1.0°, in April to 3.9°, in May to 3.2°, in June to 1.9°, in July 3.8°, in August to 2.5°, and in September to 1.5°, or a deficit of 3.9° extending over the entire eleven months. Such continuous cold had certainly not occurred within living memory or in the present century, and it reacted most unfavourably on the public health, raising the bills of mortality in Dublin to an alarming height.

1879 TABLE VI .- Abstract of Meteorological Data, from Observations taken at 40, Fitzwilliam-square, West, Dublin, by J. W. Moore, M.D.

	Nonth	Mean+ jjeight of Barumoler	Name* Temp	Mean* Homi- dity	Italedalit in Inches	Rainy1 Days	Mean * Direction of Vilad	Remarks
-				1 %	**	i	i	
	January -	30-008	35-0	81.5	1.714	10	S.E. & E.	Very wintry, the mean temperature 65° below the average.
	February -	29-500	39-7	88-5	3-706	23	E.S.E. & W. by N.	A very wet, dull, and rather cold month, the mean temperature some 30 be- low the average.
	March -	29-948	41-9	84-0	1-827	16	W. & E.	An averagely fine March: the first half dry and mild, the second half cold and dull.
	April -	29-707	44.0	82-0	1-997	17	E.N.E.	Generally cold and dull: mean temperature about 4° below the average.
	May -	30-057	49-4	75-0	2-048	23	N.W. & N.	Cold; the first fortnight marked by dry, parching N. winds and night frosts; the second half very un- settled and showery.
	June -	29-710	55.4	80-5	4-046	24	W.S.W.	Very unsettled and show- ery; mean temperature 12° below the average.
	July -	29-779	56-6	79-21	4.187	24	W. & N.W.	Very inclement, with over- cast skies, low tempera- ture, frequent rains, and high winds.
1	August -	29.770	56-9	83-0	3.704	19	W.S.W. & S.E.	Eminently changeable: mean temperature 2:3° below the average.
١	September	29-908	53-8	84-9	2.046	18	W., S.W., & W.	Changeable and showery; mean temperature 15° below the average.
١	October -	30-148	49-5	88-4	1.320	14	W.N.W. & E.N.E.	Dull, generally mild, with a scanty and infrequent reinfall.
I	November	30-304	43-4	83-0	1-251	10	N.W. & E.N.E.	A fine month; atmosphe- rical pressure very high; rainfall alight.
	December	30-217	37-9	86-4	1-012	10	S.W. & W.	A cold, generally dry month; violent S. W. gales at close.
1	Means and Totals -	29-921	o 47-0	83-0	28-858	208	W. & E.S.E.	Spring very cold and back- ward; summer cold and rainy; autumn mild and dry but dull; winter

1880 January -30-307 39-1 83-8 -563 S.E. & B.B.W. Cold, dull, and fogsy; rain-fall and rainy days under the everage. February -83-8 S.W. 29-647 44-4 2-581 17 An open, windy month; scarcely any frost; fre-QUODE FRIDA March 30-041 44-8 85-1 3-129 RS.E. & An open month, often 16 damp sod form; S. E. S.E.

rainy; autumn mild an dry, but dull; winter markably dry.

^{*} The columns marked with an asteriak are the results of observations taken daily at 9 a.m. and 9 nm. The readings of the Barometer are corrected and reduced to 25° at Mean Sea Level. * The rainfall is recorded daily at 9 a.m. and * The rainfall is recorded daily at 9 a.m. and * The Almai The recorded daily at 9 a.m. and * The Almai Theory Day '18 cone on which as issue 91 inch of rain falls.

1 A "Bakey Day" is one on which as issue 91 inch of rain falls.

1 The Mean Temperature existant from the maximal and minimal readings of the Thermometer.

by Kaemta's Formula was 4640.



1865	Inches 1-893	1-10-00	Inches 1478	1:501	3412	loches -727	3:633	3495	10ths *-056	Inches \$-056	11ches 5-259	Inches 2563	Inches 27-462
1866	1-889	2 053	3-629	2119	1:810	3-568	1-013	2:172	2784	1:733	1.489	1-680	26:879
1867	2-096	1-809	4972	2181	2806	1418	848	1775	1:176	2848	1-258	m	27241
1858	2:538	1:282	1:648	1-951	-461	477	-741	4-745	9491	are	0-142	1210	91401

798 -959 1:514 1434 5:194 1-218 2:395 90-869

2265 14391 1665 1013 9-917 1:568 -797 25-668

3-278 1-068 4302 2:484 A-191 2-114 4-039 85 566

459 A-10A 2944 2-358 8-689 2.939 692 25-836

-465 2615 164943 1-789 2:683

5414 731 729 1:559 3957 1:074 1:189 2-534

2:584 奴集 2146 4-749 91-933

\$7-559

3-179 3-907 27-185

TABLE VIII .- Showing the Monthly and Yearly Mainfall at Datin during the Years 1865 to 1873, inclusive,

5414	1:490	2422	1-272	4258	1859
1:167	188	1/89	1440	2347	1870
-578	8-182	-815	1448	2624	1871
2-164	2-555	2419	9-557	2854	1872

1858 2:538 1:989 1:648 1-950

1,859

1879 1714

Means

2-127

2-164	2655	2419	9-557	2854	1872
197	-498	2:391	925	2850	1878
1747	1415	453	9-585	2019	1874

1875 2-141 1:671 2:136 2751 1-888 7949 2477 1:040 1466 3-139 3:051 1:310 29950 1878 *484 3019 **2158** 2:601 798 1:260 1:337 2350 3146 3-614 + 7-586 4 595 33-46 1877 4.822 1580 2:741 4-707 9543 92 3-860 8-558 1795 2:158 9-438 2-350 89-148 5458 450 4841 1686 2:055 1:538 1-616 28-252

1878 1:557 1-576 1:157 2:350 4540 5-708 1:827

2409

2096

! July, 1871, was the excest month of the filtern years.

1.997 2648 4046

2616 * September, 1886, was the dried month of the films yours

9499 1409 3704 2046 1:320 1-253 1612 28-818

2-059 2-911 2472 2-199 2668 27950

4 Heaviset to job il in 24 hours = \$480 to about, on August 120s. 1874.

^{2:250} # Tournelor, 1876, was the mosth of the bearing relocal.

Messes.	27.7	176	10.8	150	15-6	134	160	160	145	176	16-1	170	199-6
1579	10	13	-04	17	23	24	24	19	18	14	10	39	205
1118	20	14	17	16	23	22	9	22	16	:0	13	:9	292
1877	25	19	29	21	18	12	25	24	10	16	22	17	229
1276	9	23	23	17	1 .	14	10	24	17	20	20	E 22	195
1575	23	17	24	12	15	20	28	14	34	26	19	19	105
1874	14	12	12	16	14		19	18	12	22	19	18	154
1875	21	*	22		17	13	23	23	13	18	14	7	150
162	23	29	21	12	22	19	12	17	22	22	24	26	235
3571	20	36	10	20		34	+ 28	12	13	14	16	15	100
1570	14	18	11		14			1	11	18	11	26	145
1889	15	18	17	14	111	11		10	21	11	17	50	151
1569	17	24	11	12	10			13	11	15	19	92	364

of 31 days, to the amount of 4-291 inches; and that 1895, was the driest month, rain having been measured shle quantity ('01 inch or upwards) on only 3 out of the remarkably small amount of '055 inch.

Mean		Typhi	is Fever	Enter	le Fever	Simpl	le Ferer	Annuel
Temp. Fahr.	Month and Year	Monthly Total	Quarterly Total	Monthly Total	Quarterly Total	Monthly Total	Quarterly Total	Totals
454		1		il .				
	April, 1875	16		2		. 13	1 6	
5:3-7	May,	12		2		12		
55.3	June,	3		1 2		99	- 8	
			31	-	6		47	
57-0	July, -	8		. 0		23		
6:00	August, .	11		6		16	1	
57-2	September, .	5		12		13	- 2	
		-	21		18	-	52 8	
19:3	October	7		· 8		16		
43.8	November, -	17		1		12		
10-4	December, -	12		4		16		
	December, .		36		13	10	44	
12.3	January, 1876	3	30	1 4	13	5	44	
41 16	January, 1870	6						
	February, -			3		7	- 1	
10-2	March, -	19		3		7	1	
			18	-	10	_	19	
	Total, .	- 1	109	- 1	47	1 - 1	162	318
6-6	April, 1876	2		1		20	1	
9.4	May,	6		5		18		
5.7	June, -	11		6		13		
	- unic,		19		12	10	51	
0.7	July, -	9	10	1	12	15	51	
8.9	August	6		4		25	l l	
4.0	September, -	4		5				
	September, .		19	5		17		
2-4	0.11		19	-	10		57	
	October, -	6		5		12	1	
3.5	November, -	13		2		17		
4.0	December, -	8		3		17	1	
		-	27		10	-	46	
2.8	January, 1877	13		12		16	- 1	
3.9	February, .	9		3		18		
1.4	March, .	13		8		12		
			35		23		46	
- 1	Total, -	- 1	100	_	55		200	355
5-3		24		-		-		933
8.7		13		4	- 1	18		
	May,	13	- 1	3		24	- 1	
1.3	June, -	13		4	- 1	18	- 1	
		-	39	-	11		GO	
8	July,	10		6		17	- 1	

37 5

0

5

ä

18

5

17

51

9

14

18

31

23

29

33

63

64

405

220

57.6 August.

52.4

50-1 October.

45.0

41.5

42.4

43.6 March,

September, -

November, - 10

December, -

January, 1878

43.9 February,

Total.

16

9

16

35

134

TABLE X.—Showing, by Months, Quarters, and Years, the Admissions of Typhus, Enteric, and Simple Feer into Cark-street Ferer Hospital for five years, ending March 31st, 1880; also the Monthly Mean Temperature.

TABLE X .- continued. Typhus For Month and Year Monthly Quarterly Total Total Monthly Total Monthly Quarterly Total Total

32

Mean Temp. Fahr.

47.8

52.4

57-2 June,

April, 1878 May, 11

7

14

28

5 2 7

Simple Fever

13

18

61-0 59-8 55-6	July, Augu		:	15 14 17		1	5		19 13 13			
50-7	Octo		ŀ	11	46	-	8	17	20	-	45	ji
37.3	Nove	mber.	- 1	15	ı		6	i	6	1		ĮĮ.
32.0	Dece	mber,	- [13	39	1_	6	20	14	١.	40	l
34-7	Janu	arv. 18	79	9		1	2		21	1 '	••	1
39.5	Febr	DATY.	- 1	9		1	4		11	1		II .
41.6	Marc	ь,	۱.	7	25	L	3	9	9	Ι,	61	ı
	To	tal,	- [_	142	1.	_	60	-	17	73	375
43.7	April	. 1871	1	2		li .	3		12			1
47-6	May,		:	5		1	2		4		1	ı
54.9	June,		- [2	9	1	2 2	7	4	١.	20	1
56.3	July.		. [4			2	•	7	1 *		1
56-6	Augu	st.	- 1	4		8	0		11		- 1	
53.3	Septe	mber,	٠.	5	13	1	1	3	-8	2	.	
49-0	Octob	er.	٦.	4	10		2	•	8	- 2	•	1
43.1	Nove	mber.		5		11	ī		3		- 1	
37-0	Decer	nber,	:	6	15		3	6	7	1	.	
39-0	Janus	ry, 188	10	18	10		7	۰	16		°	1
44-2	Febru	ATV.	- 1	20		ь .	6		16		- 1	
44-4	Marc	h, .	- 1	19		1	8	10000	8		- 1	
			1	_	57		-1	21	-	4	0	-
	Tot	al, ·	1		94	-	-	37	-	10	4	235
				UME	ARY I	OR	TE	N YEA	RS.			
Mean Fal	Temp. hr.	,	Car		Typho		1	Coterie	Simpl		1	Totals
49			370		377			118	641		1	.136
49		18	371-	-9	173		ı	187	368			716
48 49		18	72	-3	130		ı	75	284	- 1		489
49			74		113 112			77	173	- 1		
48	.9	18	75	-6	109	- 1		47	229	- 1		424 818
49		18	76.	-7	100	- 1		55	200	- 1		355
48			77-		184	- 1		51	220	ı		406
47			78-		142	- 1		60	178	- 1		376
	•	18	79-	-ov	94	- 1		37	104	- 1		985

SPECIAL DISPASES

In consideriog in detail the various forms of febrile disease, it will be convenient to divide them into—I. The Continued Fevers; and II. The Exanthemata.

I. The Continue Fevers.—Table X contains the quarterly returns of admissions of typbus, enteric, and simple continued fever respectively, for the past five years, together with an annual summary for ten years. By reference to this latter it will be seen, so already mentioned, that the admissions in each of the three forms of fever was less during the past year than in any one of the preceding nine.

(a.) Typhus.—The statistics of the cases of typhus are particularly worthy of notice. Of a total of 94 cases, 57 were admitted in the months of January, February, and March, in nearly equal numbers for each month. This number exceeds by 11 the greatest number of admissions in any quarter of the five years under con-sideration, while in each of the three preceding quarters of the present year the number of admissions was not only greatly below the average, but markedly less than in any quarter of the preceding four years. The immunity from typhus in the first three quarters of the hospital year was the reverse of what was anticipated; for, as alluded to in last year's report, an increase in typhus cases is frequently observed when a smallpox epidemic shows signs of waning. The increase in the last quarter was almost exclusively due to an epidemic of this disease which has occurred in the North Dublin Union, and which, we understand, has been confined to the female department. From this source alone 40 out of the 57 cases came. The pressure on our accommodation in the wards usually devoted to typhus became so great that it was found necessary to open the sheds-erected for smallpox in 1878-for typhus patients. Not a single case of variola occurred amongst either the patients or nurses during their so journ in this building. This fact is particularly interesting and satisfactory, as it removes any misgivings which we had as to the capability of disinfecting a wooden building of the kind. The walls of this building consist of a double sheeting of deal, the interval being filled with pine sawdust. It is worthy of consideration whether a building thus constructed may not have special powers of resisting infection—whether, in fact, the immunity from small pox infection observed here may not, in some messure, be due to the antiseptic power of the pine sawdust.

TABLE XI.

Showing the Number Admitted and Dead of Typhus Fever, of both Sara, and at different Accs. for the year ending March 31st, 1880.

		1	MALES			FEMALES							
	Agea		No. Ad- mitted	No. Died	Mortality per cent.	Ages		No. Ad- mitted	No. Died	Mortality per cent.			
Un	der 5 -	-	-	_	-	Under 5 .		6	_	-			
5	and under	15	5	-	-	5 and under	15	24	2	8.3			
15		20	6	_	-	15 "	20	14	1	7:1			
20		40	8	1	12.5	20 "	40	21	4	19-0			
40	**	60	2	_	-	40	60	8	1	12-5			
60		80	-	_	-	60 ,,	80	-	-	-			
	Total,		21	1	47	Total,	-	73	8	10-9			

The disparity between the number of male and female cases is due to the epidemic above alluded to as occurring in the North Dublin Union. The average mortality this year is composed of two very unequal elements—that of male cases being 47 per cent, and that of females being 109 per cent. Last year these two items were 170 and 18-3 per cent. respectively, giving a total of 17-6 per cent. The deaths include that of one of our nurses, aged thirty-five, who died on the seventeenth day of her illness. Shortly

per cent. In the deaths include that of one of our nurses, agosthirty-five, who died on the seventeenth day of her illness. Shortly before death her temperature was 107.8° Fahr.

(B) Enteric Feer.—Of the small number of cases admitted more than half occurred in the hast quarter of the hospital year, hence contemporaneously with the typhus epidemic above alluded to. Two males and two females died, mising the percentage mortality to 10.8, as against 83 last year, and 0 the year before. One of the fatal cases was that of a young woman, aged twenty, who died on the 17th March, apparently on the eighteenth day of an antack of enteric fever, characterised by unusually severe nervous symptoms. A few minutes before death the temperature in the axilla registered 109.8°.

TABLE YII

Showing the Number Admitted and Dead of Enteric Fever, of both Seves, and at different Ages, for the year ending March 81st, 1880.

			MALES			FEMALES						
	Ages		No. Ad- mitted	No. Died	Mortality per cent.	Agna	No. Admitted	No. Died	Mortality per cent			
Under	5 -		-	_	- 1	Under 5		-	-			
5 and	l under	15	4	-	- 1	5 and under 15	3	1	33-3			
15	**	20	9	1	11.1	15 ,, 20	6	_	-			
20		40	7	1	14-3	20 ,, 40	5	1	20.0			
40		60	2	_	- 1	40 ,, 60	1	_	11-			
60	,,	80	- 1	_	- 1	60 ,, 80	-	-	-			
To	tal, -		22	2	9-0	Total,	15	2	13.3			

- (γ.) Simple Continued Fever.—There is nothing worthy of special note as regards the cases of simple continued fever; 104 cases were admitted, and no death occurred.
- II. THE EXANTHEMATA.—A glance at Table III. will suffice to show that, both as regards numbers and severity, the cases of smallpox and scarlatina formed by far the most serious item in our vear's work.
- (a.) Scorlatina.—During the three summer months, June, July, and August, we were practically free from scarlatina; but in September the admissions became very numerous, and throughout the entire autumn, winter, and early spring we have had an admissions of patients of the property of the second of smallpox which developed during convelences from the scarlatins. On the other hand, one of the several cases of smallpox which contracted acarlatina while in hospital died of scarlatine.

TABLE XIII.

Showing the Number Admitted and Dend of Scarlatina, of both Scar, and at different Ages, for the year ording March 81st, 1890.

1	MALES				FREALES				
	No. Ad- mitted	No. Died	Mortality per cent.	Ages	No. Ad- mitted	No. Died	Mortality per cent.		
:	9	4	44-4	Under 5	10	4	40-0		
15	25	6	24-0	5 and under 15	26	8	30-7		
20	5	2	40-0	15 ,, 20	5	-	-		
40	5	1	20-0	20 ,, 40	12	2	16.6		
60	-	_	- 1	40 ,, 60	1 1	_	-		
80		_	-	60 ,, 80	1 - 1	_	-		
-	44	13	29-5	Total, -	54	14	25-9		
	15 20 40 60	No. Admitted - 9	No. Ad- No. mitted Died - 9 4	No. Ad- No. Mortality per cent.	No. Administrative Dissection No. Mortulary Dissection Disse	No. Ad No. Mercally Ages No. Ad Missel	No. Ad Disk Percently Ages No. Ad No. Electron No. Ad No. Ad No. Electron No. Ad N		

Reference to Table XIII. will show that 22 out of the 27 deaths occurred in patients under 15 years of age. The real fact is, however, that the vast majority of these deaths occurred in children under 7 years of age; and, consequently, they show unequivocally the extreme fatality of the disease in early childhood. Arain, our estatistics would tend to show that the disease is

particularly fatal in certain families. Thus, 3 fatal cases occurred amongst the children of one family, whilst 2 occurred in each of three other families.

The general type of the disease was that of Searlatina anginess. The most serious complications were as follows:—Convulsions, acute nephritis, cervical bubo, the same associated with Pymnia, and hemiplegia. Each proved fatal in one case. The hemiplegia occurred in the case of a man aged 33, on the sixth day of his illness, and caused his death on the ninth.

(G.) Measles.—Our statistics of mensles, if taken as an inder so to the prevelence of the disease throughout the city, would greatly mislead. Reference to the Quarterly Return of the Register-General shows that no less than 90 deaths occurred in the quarter ending March 31st, 1880. This must indicate a very segrous and widespread epidemic; for, although measles in the homes of the poor is frequently a source of considerable augmentation to the death-rate, it is a disease which amongst the upper classes and in hospitals is characterised by a very low rate of mortality. Yet during this quarter but 16 cases applied for admission into Cork-street Fever Hospital. The total number of cases admitted throughout the year was only 30.1 of which but 1 was faith.

With such facts as these, we can only regret that the advantage of hospital treatment in cases of measles should be so much neglected by the poor of Dublin.

TABLE XIV.

Showing the Number Admitted and Dead of Measles, of both Seres, and at different Ages, for the year ending March 31st, 1880.

		MALES			FEWALES						
Agra		No. Ad- mitted	No. Died	Mortality per cent	Ages	No Ad- mitted	No. Died	Mortalit per cent			
er 5 -		5	_	-	Under 5	2	1	50			
dunde	r 15	10	-	- 1	5 and under 15	5	_	-			
**	20	3		- 1	15 " 20	-	-	-			
••	40	2	-	- 1	20 ., 40	3	_	-			
**	60	-		-	40 ,, 60		-				
25	80	1	_	- 1	60 ., 80	-	_	-			
otal,	-	20	_	-	Total, -	10	1	10.0			
	"	As or 5	dunder 15 10 20 3 40 2 60 - 80 -	A679 No. Ad- united Died er 5 - 5 — Junder 15 10 — 20 3 — 40 2 — 60 — — 80 — —	Agra No. Ab. No. Mortality	Age No. Ab No. More More	Agr No. Ad- mitted No. Mortality Under Agrs No. Ad- mitted er 5. 5 — Under 5. 2 bunder 15 10 — 4 and wader 15 5 20 3 — 15 20 — 40 2 — 20 40 3 — 50 — 0 — 0 — 0 — 80 — — 60 — 50 — 50 —	Agr No. Ad- mitted No. Mortality Died Agre No. Ad- mitted No. Ad- mitted			

(y.) Small por.—Six hundred cases of smallpox were admitted during the year, and 119 cases died. Grave as these facts are, they indicate a very marked improvement on what we had to report last year—namely 1,509 admissions and 357 deaths; and not only are the numbers less, but the average mortality, which last year reached the very unsatisfactory rate of 23 6 per cent., has this year fallen to 19% per cent.

1820-77 April -Mag . June -

Sale . Amount

TABLE XVI.

April .

May .

Jest . July 1

16

December

February

Table XV, gives the monthly return of admissions since the commencement of the present epidemic, while Table XVI. gives a corresponding return for the epidemic of 1871-73. From the former it will appear that there has been, on the whole, a steady decrease in the number of admissions throughout the hospital-year. In September, it is true, with a mean temperature of 53.3° Fahr., there was a somewhat unaccountable rise in numbers-one which seems to run counter to the view, founded on so many independent observations, and alluded to in last year's Report-namely, that smallpox is essentially a disease of cold weather, and that a mean temperature of over 50° Fahr, is unfavourable to its development and spread. The temporary increase in January was only such as our experience had taught us to expect. On the whole, then, we may conclude that the epidemic has shown distinct evidence of decline; but we cannot shut our eyes to the fact that the occurrence within a year of 600 cases of so infectious a disorder as smallpox, must necessarily be the source of a widespread infection, from the effects of which it would be futile to expect that we could be speedily free.

TABLE XVII.

Showing the relation between the Type of the Disease and the Mortality.

From A pril 1st. 1879, to March 31st. 1880.

Varietà	08	1	Number of Cases	per cent. of all the cases	Recovered	Died	Mortality per cent.
Discrete -			346	57-6	345	1	0.2
Confluent -			185	30-8	122	63	84.0
Malignant -			69	11-6	14	55	79.7
Total		-	600	100-0	481	119	19-8
	-		1 nm2 1 st 1	876 to 1/a	wh Stat 1	880	
Discrete -	Fr	om 2	1 <i>pril</i> 1st, 1	876, to Me			0.8
	<i>F</i> r	1			1,338 483	880. 11 306	0.8
Discrete - Confluent - Malignant			1,349	56-2	1,338	11	

The character of the disease was, on the whole, distinctly milder

discrete cases was almost identical with that of last year, being 57% per cent. of the total admissions against 57% per cent. Then was but I death recorded under this category; and this was, it reality, due to scariatina, and not smallpox. It was the case of a young woman, aged nineteen, who, when convalescent from discrete smallpox, contracted scarlatina, to which she succumbed.

The other two categories, confluent and malignant (which latter includes the badly purpuric and hæmorrhagio cases), were also similar to last year, so far as the actual proportion of cases, but

they differ markedly as regards the percentage mortality—that in the confluent cases falling from 46 per cent. to 34 per cent, while in the malignant it rose from 76 per cent. to 797 per cent. These details will be seen by referring to Table XVII., as well as the summary of the statistics for the entire spidemic.

From April 1st. 1879, to March 31st. 1880.

TABLE XVIII.

Showing the Relation between the Sex of the Patients, the Type of the Disease, and the Mortality.

74-4 2,404 1,881 528

	D	ISCRET	TE.	C	ONFLUI	UTT	,	LALION	AFT		Te	TAL	
SEX .	Total	Died	Mortality per cent.	Total	Died	Mortality per cent.	Total	Died	Mortality per cent.	Total	Recovered	Died	Mortality per cent.
Males -	192	_	-	107	35	32-7	39	34	87-0	338	269	69	20.4
Females	154	1	0.6	78	28	35-8	30	21	70-0	262	212	50	19-0
Total -	346	1	0-2	185	63	34:0	69	55	79-7	600	481	119	19-8
		F	om A	pril :	lst, 1	876,	to M	arch S	31st,	1880.		_	
Males -	759	5	0-6	436	172	39-2	149	113	75-8	1,344	1,054	290	21.5
Females	590	6	1.0	353	134	37-9	117	93	74-9	1,060	827	233	21.9
		-	$\overline{}$		_		_	_	_	_	_		_

Table XVIII. gives a somewhat similar, though more elaborate classification, and is intended to show the manner in which the element of sex affected the question. The total average mortality

this year is slightly greater for males than females, being 204 per cent, against 19 per cent, whereas hast year it was greater in females than males—viz, 248 per cent. against 227 per cent. If we compare the tables of this year with those of last year we find that the difference occurs under the head of malignant cases, this item in last very a table being—

Males, 70 per cent.

Females, 84 ,, while this year it is—

Males, 87 per cent. Females, 70 ...

Why the increased mortality should appear in the case of males it is impossible to say. On the other hand, the lower rate in females may be explained by the fact that puerperal cases showed a markedly lessened tendency to assume the 'malignane'; type, while abortion and menorrhagia, often the first symptom of 'malignaney,' were much less frequently met with. The extreme cold of January, 1879, seemed to be an important element in the production of menorrhagia. There was ecarcely a female case admitted at that time that did not suffer more or less from it; and the female wards assumed, relatively to the male, a much graver aspect then than at any other period of my duty in connexion with the epidemic.

TABLE XIX.

Showing the relation between Vaccination, the Set of the Patients, and the

	Fro	A A	pril 1st,	1879, to	March:	31æ, 18	30.			
	Matma						PEVALES			
			Total	Confluent	Per cent	Total	Coaffeent	Percent		
Vaccinated .			296	79	26.7	230	59	25 6		
Unvaccinated		-	42	. 28	68-6	32	19	69-8		
Total -	•	-	338	107	81-6	282	78	29-8		
	Fron	a A	oril 1st,	1876, 6	March 3	læ, 188	0.			
Vaccinated -	3-1		1,108	290	26-1	848	225	265		
Unvaccinated		-	286	146	CI-8	212	128	60:3		
Total -	-	-	1,344	436	32-4	1,060	353	33:3		

TABLE XX.

Showing the Relation between Vaccination and the Prevalence and Sourity of Smallpar.

	D	ISCRE	TE	CONFLUENT			MALICHART			Total			
	Total	Died	Fer cent. Mortality	3	Died	Per cent. Mortality	Total	Died	Per cent.	3	Died	Fee cent.	
Vaccinated -	335	1	0.3	138	29	21:0	53	39	73 8	526	69	13	
Unvaccionted	11	-	-	47	34	72-3	16	16	100-0	74	50	67	
Total -	346	1	0.2	185	63	34-0	69	55	79-7	600	119	19-5	
Percent vac- cinated in each class	96-8			74-6			76-8			87-6			
	Fr	m A	pril 1	st, 18	376,	to Ma	rch S	ilæ,	1880.			-	
Vaccinated -	1,278	10	0-7	815	112	21.7	163	113	69-3	1,956	235	12.0	
Unvaccinated	71	1	1.4	274	194	70-8	103	93	90.2	448	288	66.2	
Total -	1,349	11	0.8	789	306	38-7	266	206	77-4	2,404	523	21.7	
Percent vac- clasted in each class	1	94-	7	64-2			61-2			81-3			

Tables XIX., XX., and XXI. contain the statistics which wanning give as to the namer in which vaccination modifies the type and mortality of the disease. Of all the cases vaccinated and unvaccinated, males and fernales, a greater proportion were confluent this year than last. Again, the average mortality of both vaccinated and unvaccinated cases was a shade higher this year than last. Probably both these facts are due to the lighter cases having been treated at home, people having become introduced to the danger of infection. The one great fact, however, remains unaltered, that while more than two-thirds of unvaccinated cases ecocyer. This

gross average mortality-is markedly less this year, being 19'8 per cent. against 23'6 per cent of last year. This is seen to be due to the fact that the relative proportion of vaccinated cases treated within the year was much greater than last year, being 87'6 per cent. against 79'3 per cent.

TABLE XXI.

Showing the Relation between the Ages of the Patients, Vaccination, and

Mortality.

Agea					Total	Per cent. at cach Age	Veccin- ated	Per cent. Vaccin- ated	Died	Mortalit per cent	
Unc	ler 5		-		52	8-6	24	46:3	35	67:3	
5 .	nd und	ler 10	-	-	79	13-2	59	74-6	13	16-4	
10	*	15	-	-	66	11-0	62	93-9	5	7-5	
15		20	-		140	23.4	134	95.7	13	9.8	
20	**	30	-	-	1.36	31-0	177	95-1	27	14-5	
30		40	-	-	45	7-5	41	91-1	16	35.5	
40	**	50	\sim	100	20	3.8	18	90-0	6	30-0	
50 as	nd upw	ards	-	-	12	2-0	11	91-6	4	86-8	
	To	tal			600	100-0	526	81-6	119	19.8	
Unde	r 5	-	ros	n A	174	1876, <i>to</i>	March 3	35.6	114	65-5	
5 40	d und	or 10		-	252	10-4	177	46-4	59	23-4	
10		15	-	-	317	13-2	279	88-0	30	9-4	
15		20	-	-	533	22-1	477	89-4	55	10-3	
20	**	30	•	-	767	31-9	665	86-7	155	20-2	
0	**	40	-	-	231	9-6	192	83-1	71	30-7	
0		50	-	-	89	3.8	74	83-1	25	28.0	
0 and	l upwa	urds	-	-	41	1.8	30	73-1	14	34-1	
	Tot	al		-	2404	100-0	1.956	81:3	593	91.7	

It will be noticed that of those under 5 years of age, not enhalf were vaccinated; of those between 5 and 10, about 3 out of every 4 were vaccinated; while at all other ages the proportion of vaccinated cases was over 90 per cent. Of those under 5 years of age the mortality reached 67.3 per cent, the fact being that searcedy a single child who is brought into hospital with the hadn "Vaccinated" in this category are numerous cases where the head "Vaccinated" in this category are numerous cases where the operation of vaccination had only just been performed, subsequently no doubt to the incention of the various infection.

But four cases that bad been re-vaccinated came under treatment. They were all light, and made speedy recoveries. Of the 74 unvaccinated cases 50 died. But the high death-rate, fearful as it is. is not the only calamity which the experience of

this epidemic proves to be specially the fate of the unvaccinated. Of the whole 74 cases there was scarcely one that could be called really light. Of the 24 that recovered one-half were detained in hospital for a period of from one to three months, as will be seen by Table XXII; and boils, abcesses, ophthalmic trouble, &c, occurred in these cases with a frequency and severity altogether out of proportion either to their numbers or even the apparent severity of the primary attack.

TABLE XXII.

Protracted Duration in Hospital of Non-Vaccinated Recoveries.

Regi	stry No.	Days in Hospital	Regulty No.	Days in Hospital
	19	64	583	34
	23	38	594	60
	75	81	624	40
	263	47	837	61
	486	67	857	
	569	83	980	1 +

The experience of the earlier part of the epidemic led my colleague, Dr. J. W. Moore, and myself to the conclusion, that however true it may be in general, that the presence of an attack

of one form of zymotic-disease tends to afford protection against the infection of another, it is certainly not true of small-pox and scarlatina. The experience of the past year not only corroborates this view, but forces us to the belief that a person affected with small-pox is, ipso facto, specially prone to take scarlatina, and vice versa. The scarlatina cases have been treated on the lower flat of the new house, while the small-pox has been in the epidemic house. The utmost care has been taken to isolate the small-pox cases; and there is every reason to believe that the separation of smallpox from scarlatina must have been every whit as complete as from any other disease. Yet numerous cases admitted with scarlatina have, about a fortaight after their admission, developed small-pox, and similarly small-pox cases have developed scarlatina. Cases of scarlatina admitted by mistake for a night into the small-pox house, spread the infection of scarlatina in that house; and if removed to the scarlatina wards, probably develop small-pox in a fortnight, and spread the infection of variola there. In addition to our experience of infection occurring within the hospital we have had cases of both kinds from without. The number of cases of variola occurring in the convalescence of scarlatina has been great enough to enable us to observe, that the disease is characterised by a slow papular development, and that, consequently, we must not make so favourable a prognosis on the first appearance of the eruption as we should be inclined to do in an ordinary case.

CONCLUSION.

In conclusion we have again the satisfaction of being able to record that no untoward accident, nor anything calling for public investigation, has occurred throughout the year.

LIST. OF SUBSCRIPTIONS AND DONATIONS.

1879-1880.

							£	6.	d.
Adams, Stephen .	-		10	0	Forward -		94		0
Aicken, Mrs		5		0	Brows, Wm., & Son .	:	1	0	0
Allen, Alexander(the late) Allen, Richard	:	2		0	Bruce & Symes Bryan, Loftus A.			0	0
Alliance GasCo.	1	2	2	ő	Burke, E. & J.		3	3	ŏ
Alingham, J. & J.	-	í	0	ő	Burke, William		í	ő	ő
Andrews & Co.		î	0	o	Butler, James J.		ô		ŏ
Andrews Mrs.		î	0	ň	Byrne & Crofton		0	2	0
Anonymous, per Dr. Redmo	nd.	î	ŏ	ŏ	Byrne, Joseph	-		10	
Anonymous, per J. Nickson		0	5	0				10	•
Ardilaun, Lord .		5	0	0					
Armstrong, Rev. G. A		4	4	0					
Arnott & Co. (Limited)	-	5	0	0	Cane, Richard -		5	0	0
Atkinson & Co	-	i	1	0	Carson, Brothers, .		0	10	0
					Casson, Joseph, J.P		1	0	0
					Chamberlaine, M. H.		1	0	0
					Chambers, Charles -	-	1	0	0
Bagota, Hutton, & Co.	-	1	0	0	Childs, Rev. Edmund -		6	5	0
Bailey, John	-	1	0	0	Civil Service and Public Off				
Baker, Wardell, & Co.	-	2	2	0	MercantileSociety -	•		12	6
Baker, S. & T	-	1	0	0	Clarke, Taunton	-	10	0	0
Bank of Ireland		20	0	0	Cochrane, Thomas -	-	1	0	0
Bank, The Royal .	-		5	0	Colclough & Sons .			10	0
Barrington, Sir John, D.L., J	.Р.	2	2	0	Cooper, W. J.			0	0
Barry, Norton, & Co	-	1	0	0	Corcoran, John .		1	0	0
Battersby & Co Battersby & Co	•	i		0	Cowan & Co		1	.0	0
Bewley & Anderson -		3	0	0	Craig, Mra		0		0
Bewley, Mrs	-	ĭ	ő	0	Creeth, John	•		0	0
Bewley, Samuel, J.P.	-	2	ğ	0	Crowe, Wilson, & Co	-	1	0	0
Bewley, Samuel, jun	:	2	2	0					
Blaypov, Hagh	•	ī	ō	0					
Bloomfield Retreat -	Ċ.	2	2	0	D D				2
Boland, Mrs.		á	ő	ŏ	Dames, F. Longworth, Q.C.	•	1	0	0
Boswell James -		2	ŏ	ŏ	Dawson, Charles, M.P. D'Arcy, John, & Son		i	ĭ	0
Boyd, Samuel, J.P.	-	2	9	ŏ	Deering, Lucius H.	-		10	0
Boyle, Low, Murray, & Co.	í	2	ő	ŏ	Dolan, Alderman	-	0	10	0
Brooke, G., & Son -		ĩ	o	0	Donegan, Patrick		1	10	0
Brooke, George -		ī	ō	0	Dranimond, W., & Son		3	ő	0
Brooks, Thomas, & Co.		î	ŏ	ŏ	Drury, Thomas, & Co.	-	3	3	0
Browne & Nolan	_	í	o	ŏ	Du Bedat, W. G., & Son	•	2	2	0
Brown, Thomas, & Co.		2	ŏ	ŏ	Du Bedat, W. G., & Son DublinSteamPacket Compa			5	0
,,,,	_	_	_	_	Duning stamp actes Compa	9			0
	-	94	1	0		-	154	6	6
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Amen J. Billot. Cooks & Co. Billot. Cooks & Co. Billot. Cooks & Co. Billot. Cooks & Co. Barry, J. W. & J. Barry, W. W. & Co. Barry, W. W. & G. Barry, W. & G. Barry, W. & G. Barry, W. & G. Barry, W. & G. Barry, W.	1 0 10 10 10 10 10 10 10 10 10 10 10 10	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	Juckeen, Mim L. J. Jacob, W. R. & Son Janesen, P. B. & Son Janesen, Pim, & Co. Janesen, Pim, & Co. Janesen, William, & Co. Johnston & Co. Kavanagh, R. Kavanagh, R. Kavanagh, R. Kavanagh, R. Kavanagh, R. Kangley, J. & C. Kongh, Philips Kingley, Edward Lambert, Brien, & Co. Levich, Toomas, T.C. Lawin, F. & Co. Lawin, R. & Co. Lawin, R		1 3 1 1 2 5 1 1 1 1 3 5 1 1 1 1 2 2	0 0 0 0 5 10 10 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000
Nationer, John Allens, Fancia Allens	1 0 10 10 10 10 10 10 10 10 10 10 10 10	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	Jackens, James Jackens, James Jacken, W. & R. & Co. Jameson, John. & Son Jameson, John. & Co. Lawingh, R. Karnangh, R. Karnangh, R. Kally, Thomas L. Kennedy, J. & C. Kennedy, J. & C. Kennedy, J. & C. Lawingh, R. Kinshan & Goss Kingley, Relward Lambert, Brien, & Co. Levin, F. & Cu. Lawin, R. & Co. Lawin, R. & Cu. Lawin, R. &		1 3 1 1 2 5 1 1 1 1 3 5 1 1 1 1 2 2	0 0 0 0 5 10 10 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000
Nationer, John Allens, Fancia Allens	1 0 10 10 10 10 10 10 10 10 10 10 10 10	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	Jackens, James Jackens, James Jacken, W. & R. & Co. Jameson, John. & Son Jameson, John. & Co. Lawingh, R. Karnangh, R. Karnangh, R. Kally, Thomas L. Kennedy, J. & C. Kennedy, J. & C. Kennedy, J. & C. Lawingh, R. Kinshan & Goss Kingley, Relward Lambert, Brien, & Co. Levin, F. & Cu. Lawin, R. & Co. Lawin, R. & Cu. Lawin, R. &		1 3 1 1 2 5 1 1 1 1 3 5 1 1 1 1 2 2	0 0 0 0 5 10 10 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000
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